

19 28 29 30 31 32 33 34 35 36 ring nodes : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 chain bonds: 3-28 9-29 15-19 16-44 20-38 22-37 24-39 26-36 28-30 28-31 28-32 29-33 29-34 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 6-20 6-23 7-8 7-12 8-9 9-10 10-11 11-12 12-24 12-27 13-14 13-18 14-15 15-16 16-17 17-18 20-21 21-22 22-23 24-25 25-26 26-27 exact/norm bonds : 1-2 1-6 2-3 3-4 4-5 5-6 6-20 6-23 7-8 7-12 8-9 9-10 10-11 11-12 12-24 12-27 15-19 16-44 20-21 20-38 21-22 22-23 22-37 24-25 24-39 25-26 26-27 26-36 exact bonds 3-28 9-29 28-30 28-31 28-32 29-33 29-34 29-35 normalized bonds : 13-14 13-18 14-15 15-16 16-17 17-18

G1:[*1],[*2]

G2:X,Cb,CN,NO2,C,O,S

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 44:CLASS

=> d his

(FILE 'HOME' ENTERED AT 11:31:14 ON 27 SEP 2003)

FILE 'REGISTRY' ENTERED AT 11:31:20 ON 27 SEP 2003

L1 STRUCTURE UPLOADED

L2 1 S L1

L3 23 S L1 FULL

=> d que 13 stat

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation. L3 23 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 609 ITERATIONS 23 ANSWERS

SEARCH TIME: 00.00.01

=> fil capl FILE 'CAPLUS' ENTERED AT 11:32:14 ON 27 SEP 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 27 Sep 2003 VOL 139 ISS 14 FILE LAST UPDATED: 26 Sep 2003 (20030926/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'.FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s 13

L4 1 L3

=> d ibib iabs hitstr

L4 AVINER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS ON STN ACCESSION NUMBER: 2001:247313 CAPLUS OCCUMENT NUMBER: 134:280721

INVENTOR(S):

194:20/21 Preparation of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides Fischer. Reiner: Graff. Alan: Bretschmeider. Thomas: Erdelen. Christoph: Drewes. Mark Wilhelm: Feucht.

Dieter

Bayer Aktiengesellschaft. Germany PCT Int. Appl.. 144 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S):

DOCUMENT TYPE:

Patent German

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
	A2 20010405 A3 20020228	WO 2000-EP9270	20000919
W: AE. AG.	AL. AM. AI, AU, AZ	. BA. BB. BG. BR. BY.	. BZ. CA, CH. CN.
CR. CU.	CZ. DE. DK. DM. DZ	. EE. ES. FI. GB. GD.	. GE. GH. GM. HR.
		. KG. KP. KR. KZ. LC.	
		, MW, MX, MZ, NO. NZ.	
SD. SE.	SG. SI. SK. SL. TJ	. TM. TR. TT. TZ. UA.	. UG. US. UZ. VN.
YU, ZA.	ZW. AM. AZ. BY. KG	. KZ. ND. RU. TJ. TM	
RW: GH. GM.	KE. LS. MW. MZ. SD	. SL. SZ. TZ. UG. ZW.	AT. BE. CH. CY.
DE. DK.	ES. FI. FR. GB. GR	. IE. IT. LU. MC. NL.	PT. SE. BF. BJ.
CF. CG.	CI. CM. GA. GN. GW	. ML. MR. NE. SN. TD.	TG
OE 19946625	A1 20010405	DE 1999-19946625	19990929
BR 2000014352	A 20020611	BR 2000-14352	20000919
		EP 2000-967741	
R: AT. BE.	CH. DE. DK. ES. FR	. GB. GR. IT. LI. LU.	NL. SE. MC. PT.

R: AT. BE. CH. OE. DK. ES. FR. GB. GR. 1T. L1. LU. ML. SE.
EE. SI. LT. LV. FI. RO. MK. CY. AL

JP 2003510308 T2 20030318 JP 2001-526508 20000919

RITY APPLN. INFO.: DE 1999-19946625 A 19990929

MO 2000-EP9270 W 20000919

R SOURCE(S): MARPAT 134:280721 PRIORITY APPLN. INFO.:

OTHER SOURCE(S): GRAPHIC IMAGE:

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

332347-97-4 CAPLUS 1-Azaspiro[4.5]dec-3-en-2-one. 3-(2.5-dimethylphenyl)-4-hydroxy-8-(trifluoromethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

332348-05-7 CAPLUS

1-Azaspiro[4.5]dec-3-en-2-one. 4-hydroxy-8-(trifluoromethyl)-3-(2.4.5-trimethylphenyl)-. cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

332348-13-7 CAPLUS

1-Azaspiro[4.5]dec-3-en-2-one, 3-(2.6-dichloro-4-methylphenyl)-4-hydroxy-8-(trifluoromethyl)-, cis- (9Cl) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

ABSTRACT:

Spirocyclic ketoenols, such as I [X = 0, NH; R = H, acyl, alkyloxycarbonyl, etc.; Rl = H, halogen, alkyl, alkoxy; R2 = H, CN, NO2, Ph, PhD, PhS, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R3 = H, CN, NO2, Ph, PhS, PhD, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkyl, haloalkyl, haloalkyl, haloalkyl, haloalkyl, haloalkyl, FS = H, CN, NO2, OH, PhS, PhD, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy, beernaryloxy, phenylalkoxy, phenylalkylthioj, were prepd, for use as pesticides and herbicides. Thus, spirocyclic ketoenol II was prepd, in 74% yield by intramol, cyclocondensation of ester III, which was prepd, starting from 4-(trifluormethyl)cyclohexanone and mesityleneacetyl chloride. The prepd, spirocyclic ketoenols were tested for insecticidal activity against species, such as Myzus persicae, Aphis gossypi, and Tetranychus urticae. Tetranychus urticae.

Relative stereochemistry.

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

332348-19-3 CAPLUS
1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-3-(2.3.4.6-tetramethylphenyl)-8-(trifluoromethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

332348-24-0 CAPLUS

1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2.6-dimethylphenyl)-4-hydroxy-8-(trifluoromethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

332348-66-0 CAPLUS
1-Oxaspiro[4.5]dec-3-en-2-one. 3-(2.5-dimethylphenyl)-4-hydroxy-8-(trifluoromethyl)- (9CI) (CA INDEX NAME)

332348-69-3 CAPLUS 1-Oxaspiro[4.5]dec-3-en-2-one, 4-hydroxy-8-(trifluoromethyl)-3-(2.4.5-trimethylphenyl)- (9Cl) (CA INDEX MAME)

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

332348-73-9 CAPLUS
1-Oxaspiro[4.5]dec-3-en-2-one. 4-hydroxy-3-(2.3.4.6-tetramethylphenyl)-8-(trifluorumethyl)- (9(1) (CA INDEX NAME)

332348-28-4P 332348-31-9P 332348-35-3P 332348-39-7P 332348-43-3P 332348-47-7P 332348-50-2P 332348-54-6P 332348-57-9P 332348-57-3P 332348-77-3P 332348-80-8P

332348-77-39 332348-80-8P
RI- AGR (Agricultural use): BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): BIOL (Biological study): PREP (Preparation): USES (Uses) (prepn. of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides): 332348-28-4 CAPLUS
1-Azaspiro(4.5]dec-3-en-2-one. 3-(2-bromo-5-methylphenyl)-4-hydroxy-8-(trifluoromethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) 322348-43-3 CAPLUS Propanoic acid. 2-methyl-, cis-2-oxo-3-(2.3.4.6-tetramethyl)phenyl)-8-(trifluoromethyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9Cl) (CA INDEX

Relative stereochemistry.

332348-47-7 CAPLUS
Carbonic acid. ethyl cis-2-oxo-8-(trifluoromethyl)-3-(2.4.6trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) .(CA INDEX NAME)

Relative stereochemistry.

332348-50-2 CAPLUS Carbonic acid. cis-3-(2.5-dimethylphenyl)-2-oxo-8-(trifluoromethyl)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

332348-54-6 CAPLUS

Carbonic acid, ethyl cis-2-oxo-8-(trifluoromethyl)-3-(2.4.5-trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) 32248-31-9 CAPLUS Propanoic acid. 2-cetyl-. cis-2-oxo-8-(trifluorocethyl)-3-(2.4.6-tricethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9C1) (CA INDEX NAME)

Relative stereochemistry.

332348-35-3 CAPLUS

Propanoic acid. 2-methyl-. cis-3-(2.5-dimethylphenyl)-2-oxo-8-(trifluoromethyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX

Relative stereochemistry.

332348-39-7 CAPLUS
Propanoic acid. 2-methyl-. cis-2-oxo-8-(trifluoromethyl)-3-(2.4.5-trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN Relative stereochemistry.

332348-57-9 CAPLUS

Carbonic acid. cis-2-oxo-8-(trifluoromethyl)-3-(2,4,6-trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

332348-60-4 CAPLUS
Carbonic acid. cis-3-(2.4-dichloro-6-methylphenyl)-2-oxo-8(trifluoromethyl)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA
INDEX NAME)

Relative stereochemistry.

332348-63-7 CAPLUS

Carbonic acid. ethyl cis-2-oxo-3-(2.3.4.6-tetramethylphenyl)-8-(trifluoromethyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX

Relative stereochemistry.

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

332348-75-1 CAPLUS
Propanoic acid. 2-methyl-, 3-(2.5-dimethylphenyl)-2-oxo-8(trifluoromethyl)-1-oxaspiro[4.5]dec-3-en-4-yl ester (9C1) (CA INDEX NAME)

332348-77-3 CAPLUS
Propanoic acid. 2-methyl-. 2-oxo-8-(trifluoromethyl)-3-(2.4.5-trimethylphenyl)-1-oxaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

$$F_{3C} - \underbrace{\hspace{1cm}}_{1 \cdot Pr - \underbrace{\hspace{1cm}}_{C} - \underbrace{\hspace{1cm}}_{Me}}^{0} \underbrace{\hspace{1cm}}_{Ne}^{Ne}$$

332348-80-8 CAPLUS Propanoic acid. 2-methyl-. 2-oxo-3-(2.3.4.6-tetramethylphenyl)-8-(trifluoromethyl)-1-oxaspiro[4.5]dec-3-en-4-yl ester (9Cl) (CA INDEX NAME)

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

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STRUCTURE FILE UPDATES: 26 SEP 2003 HIGHEST RN 593958-55-5 DICTIONARY FILE UPDATES: 26 SEP 2003 HIGHEST RN 593958-55-5

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

Uploading 088979b.str

15 STRUCTURE UPLOADED

=> s 15

SAMPLE SEARCH INITIATED 11:33:14 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED

5 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:

ONLINE **COMPLETE**

BATCH

COMPLETE

PROJECTED ITERATIONS:

5 TO

PROJECTED ANSWERS:

234 0 TO

L6

0 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 11:33:19 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 108 TO ITERATE

100.0% PROCESSED

108 ITERATIONS

10 ANSWERS

SEARCH TIME: 00.00.01

L7

10 SEA SSS FUL L5

=> d que 17 stat L5 STR

G1 NH,0 G2 CN,[@1] G3 X,Cb,CN,NO2,C,O,S

Structure attributes must be viewed using STN Express query preparation. L7 $$\cdot$~10$ SEA FILE=REGISTRY SSS FUL L5

100.0% PROCESSED

108 ITERATIONS

10 ANSWERS

SEARCH TIME: 00.00.01

=> fil capl

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=> s 17

L8 1 L7

=> d ibib iabs hitstr

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 2001:247313 CAPLUS DOCUMENT NUMBER: 134:280721

194:200/21 Preparation of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides Fischer. Reiner: Graff. Alan: Bretschneider. Thomas: Erdelen. Christoph: Drewes. Mark Wilhelm: Feucht.

INVENTOR(S):

Dieter

Bayer Aktiengesellschaft, Germany PCT Int. Appl., 144 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S):

Patent

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE A2 A3 20010405 20020228 WO 2001023354 WO 2000-EP9270 20000919 WD 2001023354 A3 20020228

W: AE. AG, AL. AM. AT. AU. AZ. BA. BB. BG, BR. BY. BZ. CA. CH. CN. CR. CU. CZ. DE. OK. DM. DZ. EE. ES. FI. GB. GD. GE. GH. GM. RR. HU. ID. IL. IN. IS. JP. KE. KG. KP. KR. KZ. LC. LK. LR. LS. LT. LU. LV. MA. MD. MG, MK. MN. MN. MX. MZ. ND. NZ. PL. PT. RD. RU. SD. SE. SG. SI. SK. SL. TJ. TM. TR. TT. TZ. L/A. UG. US. UZ. VN. YU. ZA. ZN. AM. AZ. BY. KG. KZ. MD. RU. TJ. TM. RN: GH. GM. KE. LS. MN. MZ. SD. SL. SZ. TZ. UG. ZW. AT. BE. CH. CY. DE. DK. ES. FI. FR. GB. GR. IE. IT. LU. MC. NL. PT. SE. BF. BJ. CF. CG. CI. CM. GA. GM. GN. ML. MR. NE. SN. TD. TG. DE 19946655 19990929

BR 2000014352 A 20020710 EP. 2000-967741 20000919

R: AT. BE. CH. DE. DK. ES. FR. GB. GR. IT. II. LU. M. SS. MC. PT. WO 2001023354 12/2041 AZ ZUUZUTU EF ZUUZUTU EF ZUUZUTU ER Z JP 2003510308

DE 1999-19946625 A 19990199

MO 2000-EP9270 W 20000919

MARPAT 134:280721 PRIORITY APPLN. INFO.:

OTHER SOURCE(S): GRAPHIC IMAGE:

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

332348-85-3 CAPLUS Cyclohexanecarboxylic acid. 1-[[(2.5-dimethylphenyl)acetyl]amino]-4-(trifluoromethyl)-, methyl ester, cis- (9Cl) (CA INDEX NAME)

Relative stereochemistry.

332348-88-6 CAPLUS
Cyclohexanecarboxylic acid. 4-(trifluoromethyl)-1-[[(2.4.5-trimethylphenyl)acetyl]amino]-. methyl ester. cis- (9CI) (CA INDEX NAME)

Relative stereochemistry

33239-91-1 CAPUS Cyclobexanecarboxylic acid. 1-[[(2.4-dichloro-6-methylphenyl)acetyi]amino]-4-(trifluoromethyl)-. methyl ester. cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

ABSTRACT:
Spirocyclic ketoenols, such as I [X = 0, NH; R = H, acyl, alkyloxycarbonyl, etc.; Rl = H, halogen, alkyl, alkoxy; R2 = H, CN, ND2, Ph, PhO, PhS, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R3 = H, CN, ND2, Ph, PhS, PhO, alkyl, haloalkoxy, phenylalkoxy, phenylalkoxy, phenylalkoxy, phenylalkoxy, phenylalkoxy, phenylalkoxy, phenylalkoxy, haloalkyl, haloalkyloxy, PS = H, CN, ND2, OH, PhS, PhO, halogen, alkyl, alkoxy, haloalkyl, haloalkyloxy, perform alkyl, phenylalkoxy, phenylalkoxy, phenylalkylthio], were prepd. for use as pesticides and herbicides. Thus, spirocyclic ketoenol II was prepd. in 74% yield by intramol, cyclocondensation of ester III, which was prepd. starting from 4-(trifluoromethyl)cyclohexanone and mestityleneacetyl chloride. The prepd. Spirocyclic ketoenols were tested for insecticidal activity against species, such as Myzus persicae. Aphis gossypi, and Tetranychus urticae.

332348-83-1P 332348-85-3P 332348-88-6P 332348-91-1P 332348-93-3P 332348-96-6P 332348-99-9P 332349-07-2P 332349-09-4P 332349-11-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (prepn. of trifluoromethyl spirocyclic ketoenols for use as pesticides

and herbicides)

332348-83-1 CAPLUS
Cyclohexanecarboxylic acid. 4-(trifluoromethyl)-1-[[(2,4.6trimethylphenyl)acetyl]amino]-. methyl ester. cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

332348-93-3 CAPLUS Cyclohexanecarboxylic acid. 1-[{(2.3.4.6-tetramethylphenyl)acetyl]amino]-4-(trifluoromethyl)-. methyl ester. cis- (9Cl) (CA INDEX NAME)

Relative stereochemistry.

$$\begin{array}{c} \text{Me} \\ \text{Me} \\ \text{Me} \\ \text{MeO} \\ \text{O} \end{array}$$

332348-96-6 CAPLUS

Cyclohexanecarboxylic acid. 1-[[(4-chloro-2.6-dimethylphenyl)acetyl]amino}-4-(trifluoromethyl)-. methyl ester. cis- (9Cl) (CA INDEX NAME)

Relative stereochemistry.

Cyclohexanecarboxylic acid, 1-[[(2-bromo-5-methylphenyl)acetyl]amino]-4-(trifluoromethyl)-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

332349-07-2 CAPLUS
Benzeneacetic acid. 2.5-dimethyl-. 1-(ethoxycarbonyl)-4-(trifluoromethyl)cyclohexyl ester (9CI) (CA INDEX NAME)

332349-09-4 CAPLUS Benzeneacetic acid. 2.4.5-trimethyl-. 1-(ethoxycarbonyl)-4-(trifluoromethyl)cyclohexyl ester (9CI) (CA INDEX NAME)

332349-11-8 CAPLUS
Benzeneacetic acid. 2.3.4.6-tetramethyl-. 1-(ethoxycarbonyl)-4-(trifluoromethyl)cyclohexyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) => fil reg
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STRUCTURE FILE UPDATES: 26 SEP 2003 HIGHEST RN 593958-55-5 DICTIONARY FILE UPDATES: 26 SEP 2003 HIGHEST RN 593958-55-5

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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=> Uploading 088979c.str

L9 STRUCTURE UPLOADED

=> s 19

SAMPLE SEARCH INITIATED 11:34:10 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

3 TO 163

PROJECTED ANSWERS:

0 TO

L10 0 SEA SSS SAM L9

=> s 19 full

FULL SEARCH INITIATED 11:34:16 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 50 TO ITERATE

100.0% PROCESSED

50 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

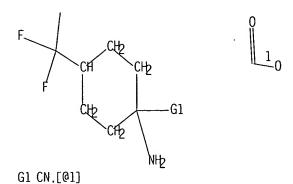
L11

1 SEA SSS FUL L9

=> d que 111 stat

L9

STR



Structure attributes must be viewed using STN Express query preparation. L11 $\,$ 1 SEA FILE=REGISTRY SSS FUL L9

100.0% PROCESSED

50 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

=> fil capl

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FILE COVERS 1907 - 27 Sep 2003 VOL 139 ISS 14 FILE LAST UPDATED: 26 Sep 2003 (20030926/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'.FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s 111

L12 1 L11

=> d ibib iabs hitstr

10/088,979

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
134:280721
1TILE:
Preparation of trifluoromethyl spirocyclic ketoenols
for use as pesticides and herbicides
Fischer. Reiner: Graff. Alan; Bretschneider. Thomas:
Erdelen. Christoph: Drews. Mark Wilhelm: Feucht.
Dieter
PATENT ASSIGNEE(S):
Bayer Aktiengesellschaft. Germany
PCT Int. Appl.. 144 pp.
COOM: PIXXO2
DOCUMENT TYPF:

DOCUMENT TYPE: Patent

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATEN	T NO.	KIND DA	TE				
				WO 20	000-EP9270	20000919	
WO 20	01023354	A3 20	020228				
W	: AE. AG.	AL. AM. A	T. AU. AZ	. BA. BB.	BG. BR. E	3Y. BZ. CA.	CH. CN.
	CR. CU.	. CZ. DE. C	K, DM. D2	. EE. ES.	. FI. GB. (D. GE. GH.	GM. HR.
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ABSTRACT:
Spirocyclic ketoenols, such as 1 (X = 0, NH; R = H, acyl, alkyloxycarbonyl, etc.; Rl = H, halogen, alkyl, alkoxy; R2 = H, CN, NO2, Ph, PhO, PhS, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R3 = H, CN, NO2, Ph, PhS, PhO, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkyloxy; R5 = H, CN, NO2, CH, PhS, PhO, halogen, alkyl, alkoxy, haloalkyl, haloalkyloxy; R5 = H, CN, NO2, CH, PhS, PhO, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy, beteroaryloxy, phenylalkoxy, phenylalkylthiol, were prepd, for use as pesticides and herbicides. Thus, spirocyclic ketoenol II was prepd. in 74% yield by intramol, cyclocondensation of ester III, which was prepd. starting from 4-(trifluoromethyl)cyclohexanone and mestiyleneactyl chloride. The prepd. spirocyclic ketoenols were tested for insecticidal activity against species, such as Myzus persicae. Aphis gossypi, and Tetranychus urticae.

IT 332349-04-9P RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT

(Reactant or reagent)
(prepn. of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides)
332349-049 CAPLUS
(yclohexanecarboxylic acid, 1-amino-4-(trifluoromethyl)-, methyl ester.
cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

10/088,979

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=> log y COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.95	459.91
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-1.95

STN INTERNATIONAL LOGOFF AT 11:34:51 ON 27 SEP 2003